

ABSTRACT OF THE DISCLOSURE

There is provided an optical module capable of preventing the efficiency of optical coupling from deteriorating even if temperature varies. The optical module 1 has a holder 2 and an aspherical lens 11, which are formed of a plastic so as to be integrated with each other. The holder 2 has a cylindrical portion 8 which engages a photoelectric transfer element package 3. The photoelectric transfer element package 3 has a flange portion 15 which butts the open end face 16 of the cylindrical portion 8. The flange portion 15 is bonded to the open end face 16 of the cylindrical portion 16, and a gap is formed between the outer peripheral surface 18 of the cap 12 of the photoelectric transfer element package 3 and the inner peripheral surface of the cylindrical portion 8. In the optical module 1, the variation ( $\Delta d_2$ ) of the distance ( $d_2$ ) from the vertex P1 of the aspherical lens 11 to the focal point P2 thereof in accordance with temperature change is substantially equal to the variation ( $\Delta L$ ) of the axial length (L) from the vertex P1 of the aspherical lens 11 to the open end face 16 of the cylindrical portion 8 in accordance with temperature change.